

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2003243175 A**

(43) Date of publication of application: **29.08.2003**

(51) Int. Cl **H05B 33/14**
C09K 11/06, H05B 33/10

(21) Application number: **2002038178**
(22) Date of filing: **15.02.2002**

(71) Applicant: **KONICA CORP**
(72) Inventor: **OSHIYAMA TOMOHIRO**
YAMADA TAKETOSHI
KITA HIROSHI
SUZURISATO YOSHIYUKI

**(54) ORGANIC ELECTROLUMINESCENT
ELEMENT AND DISPLAY DEVICE**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a high-brightness and long-life organic electroluminescent el-

ement and a high-brightness and long-life display device using the organic electroluminescent element.

SOLUTION: The organic electroluminescent element contains a cyclodextrin class or a cyclodextrin derivative.

COPYRIGHT: (C)2003,JPO

(C) WPI / DERWENT

AN - 2003-772342 [73]

AP - JP20020038178 20020215

CPY - KONS

DC - E13 L03 U11 U14 X26

FS - CPI;EPI

IC - C09K11/06 ; H05B33/10 ; H05B33/14

MC - E07-A02H E35-X L03-D01D L03-G05F

- U11-A15B U14-J02D2 X26-J

M3 - [01] A677 C810 M411 M782 M904 M905 Q454; R07079-K R07079-M

- [02] A678 C810 M411 M782 M904 M905 Q454; R03247-K R03247-M

- [03] A676 C810 M411 M782 M904 M905 Q454; R07078-K R07078-M

- [04] D014 D015 D019 D240 H4 H405 H424 H484 H8 K0 L8 L814 L824 L831

M280 M311 M323 M342 M373 M393 M423 M511 M520 M530 M540 M782 M904 M905

Q454; RA061R-K RA061R-M

PA - (KONS) KONICA CORP

PN - JP2003243175 A 20030829 DW200373 H05B33/14 015pp

PR - JP20020038178 20020215

XA - C2003-212883

XIC - C09K-011/06 ; H05B-033/10 ; H05B-033/14

XP - N2003-618816

AB - JP2003243175 NOVELTY - The organic electroluminescent element contains cyclodextrin.

- DETAILED DESCRIPTION - The organic electroluminescent element contains an inclusion complex of organic compound, and cyclodextrin or its derivative having triaryl amine. The element further contains iridium, platinum and/or osmium complex. The organic compound is aromatic hydrocarbon and its derivative(s). The cyclodextrin and its derivative are beta -cyclodextrin. An INDEPENDENT CLAIM is included for display device.

- USE - For display device (claimed), such as electroluminescence display used as electronic display device.

- ADVANTAGE - The organic electroluminescent element has excellent light-emission, brightness, high intensity and long-life.

- (Dwg.0/0)

CN - R07079-K R07079-M R03247-K R03247-M R07078-K R07078-M RA061R-K RA061R-M

IW - ORGANIC ELECTROLUMINESCENT ELEMENT DISPLAY DEVICE CONTAIN CYCLODEXTRIN

LIGHT EMIT BRIGHT HIGH INTENSITY LONG LIFE

IKW - ORGANIC ELECTROLUMINESCENT ELEMENT DISPLAY DEVICE CONTAIN CYCLODEXTRIN

LIGHT EMIT BRIGHT HIGH INTENSITY LONG LIFE

NC - 001

OPD - 2002-02-15

ORD - 2003-08-29

PAW - (KONS) KONICA CORP

TI - Organic electroluminescent element for display device, contains cyclodextrin, and has excellent light-emission, brightness, high intensity and long-life